

LUTSENKO, M N

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LUTSENKO, M N , ED.

ZAKRUTOY POD*YEM ZHIVOTNOVOKSTVA (FOR A SHARP RISE IN STOCK BREEDING)

MOSKVA, SEL'KHOZGIZ, 1956.

254 P. TABLES.

LUTSENKO, M.H.

DOBROCHOTOV, G.N.; ~~LUTSENKO, M.H.~~ redaktor; AZAROVA, O.A., redaktor;
BYRDINA, A.S., redaktor; BALLOD, A.I., tekhnicheskij redaktor.

[Zootechnician's reference manual] Spravochnik zootekhnika.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 935 p. (MIRA 10:11)
(Stock and stockbreeding)

LUTSENKO, M.N.

Possibilities of increasing the output of livestock products in
the White Russian S.S.R. Zhivotnovodstvo 19 no.11:19-27 N '57.
(MIRA 10:12)

1. Ministr sel'skogo khozyaystva BSSR.
(White Russia--Stock and stockbreeding)

LUTSENKO, M.N.

Collective and state farms of White Russia are striving for
higher standards in agriculture. Zemledelie 7 no.12:3-10
D '59. (MIRA 13:3)

1. Minister sel'skogo khozyaystva BSSR.
(White Russia--Agriculture)

LUTSENKO, M. S.

22567. LUTSENKO, M. S. Shiroko rasprostranyat'opt ragoty Mastury Azizovoy (Rukovoditel' traktornoy Grigady Samarkandskoy MTS). Sots. sel. khoz-vo : Uzgekistana, 1949 No. 3, s, 21-25.

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

LUTSENKO, M. S.

Forage Plants

Increase production of feeding stuffs on collective farms. Kolkh. proiz. 12 no. 5, 1952

Monthly List of Russian Accessions, Library of Congress November 1951. UNCLASSIFIED.

LUTSENKO, M. S., Cand Tech Sci -- (diss) "Complex mechanization of the cotton plant and some problems of organization of the territory of agricultural enterprises." Tashkent, 1960. 22 pp; with illustrations; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst); 150 copies; price not given; (KL, 27-60, 153)

LUTSENKO, M.S.

Establishing norms for mechanized work in cotton growing. Trudy TIII
MSKH no.19:47-59 '62. (MIRA 17:1)

LUTSENKO, M. T.: Master Med Sci (diss) -- "Some data on maturation, forms of multiplication, and topography of the red marrow cells of the rabbit under normal conditions and after blood loss and disturbance to central nervous regulation". Blagoveshchensk, 1958. 27 pp (Khabarovsk State Med Inst), 250 copies (KL, No 5, 1959, 156)

LUTSENKO, M.T.

USSR/Ceneral Biology - Cytology.

B-2

Abs Jour : Ref Zhur - Biol., No 5, 1958, 18998

Author : Lutsenko, M.T.

Inst : -

Title : Some Amitotic Forms of Cell Multiplication in Rabbits' Red Bone Marrow.

Orig Pub : Uch. zap. Stavropolsk. med. in-t, 1957, No 1, 20-34

Abstret : The study of forms of multiplication of hemocytoblasts, promyelocytes, pseudoeosinophiles and normoblasts was conducted on moist imprints from rabbit bone marrow and on histological sections. Among the amitotic forms of red bone marrow cell multiplication, gemmation and amitotic nuclear interlacing were observed, as a result of which different sizes and different kinds of cells were formed.

Card 1/1

LUTSENKO, M.T.

Simple method for producing red marrow preparations. Lab. delo
5 no.3:22-24 My-Je '59. (MIRA 12:6)

1. Iz kafedry gistologii i embriologii (zav. - dots. T.Ya. Stolyar)
Blagoveshchenskogo meditsinskogo instituta.

(ANATOMICAL SPECIMENS--COLLECTION AND PRESERVATION)
(MARROW)

LUTSENKO, M.T.

Amitotic reproduction of the red marrow cells. TSitologia
2 no.3:261-265 My-Je '60. (MIRA 13:7)

1. Kafedra gistologii i embriologii Blagoveshchenskogo medi-
tsinskogo instituta.
(AMITOSIS) (MARROW)

LUTSENKO, N.A.; KOVALEV, V.P.; YAROV, A.N.; YURCHENKO, O.N.

Utilization of black liquor wastes from woodpulp production.
Bum.i der.prom. no.4:24-25 O-D '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti
i Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy
promyshlennosti.

(Woodpulp industry--By-products)

ca

21

Effect of temperature on the properties of oil-well cements. N. A. Lutsenko and R. I. Grodzovskaya. *Azerbaidzhaniskoe Neftyanoye Khoz.* 1936, No. 11, 35-9. The "Kaspli" cement cannot be used in deep wells, particularly those having a temp. exceeding 100°. Pozzuolana cement cannot be used because of the presence of pumice. Iron cement from a Baku plant can be used in wells with temps. up to 130°. The expts. are described and the results are tabulated. A. A. Boethlinsek

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LUTSENKO, N A.

Aug 1947

USSR/Engineering

Cement

Petroleum - Well Drilling

"Economic Use of Tampon Cement," N. A. Lutsenko,
Candidate in Technical Sciences, 3 pp

"Azerbaydhan Neft Khozaystvo" No 8 (254)

One of the most important operations in connection with an oil bore is plugging with cement. For this reason the quality of cement used has a very great significance. This quality depends on many factors. At the present time Type OST No 1581-42 cement is used for these plugging operations. Emphasis is placed on the fact that in mixing this cement, water

23339

Aug 1947

USSR/Engineering (Contd)

Cement

Petroleum - Well Drilling

must be 50 percent of the weight of the cement used.

23339

XANTAKUZEN, A.V.; LUTSENKO, N.A.

Effect of new chemical reagents and drilling fluids on the quality
of plugging cements. Gaz.prom. 4 no.5:8-12 My '59.
(MIRA 12:7)

(Gas wells) (Cement)

LUTSENKO, N.A., kand.tekhn.nauk

Use of some types of mixed cements in gas well cementing. Nauch.zap.-
Ukrniiproekta no.4:37-41 '61. (MIRA 15:1)
(Ukraine--Gas wells) (Cement)

LUTSENKO, N.A., kand.tekhn.nauk; ZHIDOVTSSEV, N.A., kand.tekhn.nauk;
OBRAZTSOV, O.I., inzh.

Well cementing on the Shebelinka and Rudki gas fields. Nauch.
zap. Ukrniiproekta no.9:49-55 '62. (MIRA 16:7)
(Sebelinka region--Gas well cementing)
(Lvov Province--Gas well cementing)

LUTSENKO, N.A.; YAROV, A.N.; FINGENOV, I.S.

Contraction of hardening cement and annular space gas manifestations.
Gaz. prom. 9 no.10:7-9 '64. (MIRA 17:12)

LUTSENKO, N.A.; ILOVAYSKIY, I.N.; OBRAZTSOV, O.I.; KORINSKIY, R.G.

Using lightened cement grouting. Neft. i gaz. prom. no.3:
22-24 J1-S '64. (MIRA 17:12)

LUTSENKO, N.A.; OBRAZTSOV, O.I.

Lightened fibrous cement muds. Burenie no.9:35-38 '64.
(MIRA 18:5)

1. UkrNIIgiproneftegaz.

LUTSENKO, N.A.; ORAZTAYEV, C.I.

Lightened diatomite-cement fluids. Neft. i gaz. prom. no. 1:28-30
Ja-Mr '65. (MIRA 18:8)

LUTSENKO, N.A.; OBRAZTSOV, O.I.

Using portland pozzualan cement produced by the Bryansk Plant
for well cementing. Neft. i gaz. prom. 3:28-30 J1-S '65.
(MIRA 18:11)

L. I. SENKO, A. G.

PHASE I BOOK EXPLOITATION	30V/3462
Akademiyu nauk Gruzinskoy SSR. Institut prikladnoy khimii i elektro-khimii	
hidroelektrometallurgiya khroma; sbornik rabot (Hydroelectrometallurgy of Chromium; Collection of Works), Tbilisi, 1959. 261 p. 1,000 copies printed.	
Ed.: N.T. Gofman; Ed. of Publishing House: L.N. Sarkisyan; Tech. Ed.: A.R. Todua.	
PURPOSE: This book is intended for metallurgists.	
OBTAINING CHROMIUM COMPOUNDS FROM FERROCHROME	
I. Electrochemical Methods of Obtaining Chromium Compounds	
Agladze, R.I., T.V. Ionatamishvili, and S.N. Easmanova. Anodic Dissolution of Ferrocchrome in Solutions of Sodium Carbonate and Caustic Soda	3
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Ionatamishvili, T.V., and L.L. Rubesh. Effect of Certain Sulfur Compounds on the Process of Producing Electrolytic Chromium	181
Agladze, R.I., T.V. Ionatamishvili, Dzh. P. Gvalesiani, and R.A. Mchughishvili (Deceased). The Production of Corrosion-Resistant Chromium and Chromium Alloys by Electrolysis	201
Ionatamishvili, T.V., and Dzh. P. Gvalesiani. Production of Chromium	201

VYALYKH, M.F.; LUTSENKO, N.G.

Acetone bodies in themyocardium in aortic stenosis in rabbits.
Vop. med. khim. 7 no.2:186-190 Mr-Apr '61. (MIRA 14:6)

1. Laboratory of Biochemistry of the Institute of Pharmacology and
Chemotherapeutics, Academy of Medical Sciences of the U.S.S.R.,
and the Chair of Biochemistry of the Soil and Biology Faculty of
Moscow State University.

(ACETONE BODIES) (HEART—MUSCLE)
(AORTA—DISEASES)

BEREZOV, T.T.; LUTSENKO, N.G.

Transaminases of dicarbonic amino acids and glutamine in human
brain tumors. Dokl. AN SSSR 149 no.6:1435-1437 Ap '63.

(MIRA 16:7)

1. Pervyy Moskovskiy meditsinskiy institut im. I.M.Sechenova i
Institut neyrokhirurgii AMN SSSR. Predstavleno akademikom
A.I.Oparinym.

(TRANSAMINASES) (BRAIN--TUMORS)

LUTSENKO, N.G.; PROMYSLOV, M.Sh.

Examination of proteolytic activity in human brain tumors.
Vop. med. khim. 9 no.1:60-63 Ja-F '63. (MIRA 17:6)

1. Institut neyrokhirurgii imeni akad. N.N. Burdenko, AMN
SSSR, Moskva.

LUTSENKO, N.M.

Overhead roller conveyor for delivering lumber through window and door openings. Rats. i izobr. predl.v stroi. no.119:3-4 '55. (MLRA 9:7)
(Conveying machinery)

LUTSENKO, N.M.

Polysaccharides in normal and irradiated rabbit ovary. Arkh. anat.,
gist. 1 embr. 48 no.2:25-29 F '65.

(MIRA 18:8)

1. Kafedra gistologii s embriologiyey (zav. - dotsent M.G.Shubich)
Kubanskogo gosudarstvennogo meditsinskogo instituta, Krasnodar.

LUTSENKO, N.M. (Krasnodar, ulitsa Mira, 38, kv. 54)

Histochemical study of protein substances in the rabbit
ovary. Arkh. anat., gist. i embr. 44 no.6:75-79 Je '63.
(MIRA 17:7)

1. Kafedra gistologii s embriologiyey (zav. - dotsent, M.G.
Shubich) Kubanskogo gosudarstvennogo meditsinskogo instituta,
Krasnodar.

OYVIN, I.A.; MILASH, G.P.; SHUBICH, M.G.; VENGLINSKAYA, Ye.A.;
LUTSENKO, N.M.; MUKHAMEDZHANOV, I.A.; TOKAREV, O.Yu.;
~~SHCHEGEL~~!, S.M.; YAGODKINA, Ye.G. (Krasnodar)

Relation of the development of inflammation to the state of
the blood coagulation system. Arkh. pat. 26 no.2:63-68 '64.
(MIRA 17:8)

1. Kafedra patologicheskoy fiziologii (zav. - prof. I.A. Oyvin),
kafedra patologicheskoy anatomii (zav. - dotsent G.P. Milash)
i kafedra gistologii (zav. - dotsent M.G. Shubich) Kubanskogo
meditsinskogo instituta.

LUTSENKO, N. V., PELEKHOV, V. I., GROSHEV, L. V., DEMIDOV, A. M.

"(n, γ) Reactions Studies at the IRT Reactor of the USSR Academy of Sciences."

paper presented at the Symposium of the International Atomic Energy Agency on Fission Neutron Research in Physics, Vienna, 17-21 Oct 1960.

Institute for Atomic Energy imeni I. V. Kurchatov, of the USSR Academy of Science.

LUTSENKO, O.N.

ZAMORUYEV, V.M.; ZHIKHAREV, D.M.; LUTSENKO, O.N.; BARANOV, I.A., inzh.,
red.; GVIRTS, V.L., tekhn.red.

[Using oxygen blast for raising the temperature of liquid iron
in the ladle; practice of the Kanoner Shipbuilding and Ship
Repairing Plant] Povyshenie temperatury zhidkogo chuguna putem
produvki kislorodm v kovshe; opyt Kanonerskogo sudostroitel'no-
sudoremontnogo zavoda. Leningrad, 1956. 8 p. (Leningradskii dom
nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii
listok, no.31. Liteinoe proizvodstvo) (MIRA 10:12)
(Oxygen--Industrial applications) (Founding)

LUTSENKO, P.I.

We are working ahead of schedule. Transp.stroi. 9 no.12:
5-6 D '59. (MIRA 13:5)
(Electric railroads--Track)

LUTSENKO, S.M.

Creation of collateral myocardial circulation by using a diaphragmatic flap. [with summary in English]. *Exper.khir.* 1 no.3:57-62 My-Je '56
(MIRA 11:10)

1. Iz kafedry gosspital'noy khirurgii (zav. prof. P.V. Ryzhov)
Kishinevskogo meditsinskogo instituta (dir. - prof. N.T. Starostenko).

(HEART, blood supply

exper. collateral myocardial circ., creation by
suturing diaphragmatic flap to epicardium of dogs (Rus))

(DIAPHRAGM, surg.

exper., suturing of diaphragmatic flap to epicardium
of dogs for creation of collateral circ. (Rus))

LUTSENKO, S.M., kand.med.nauk (Kishinev, ul. Pushkina, d.21)

Damage to the liver and spleen in closed abdominal injuries. Nov.
Khir.arkh.no.3:49-54 My-Je '58 (MIRA 11:9)

1. Kafedra gospiatal'noy khirirugii (zav. prof. P.V. Ryzhov)
Kishinevskogo meditsinskogo instituta.
(LIVER--WOUNDS AND INJURIES)
(SPLEEN--WOUNDS AND INJURIES)

LUTSENKO, S.M.

Rupture of echinococcus of the liver into the gall bladder with
obturation. Nov.khir.arkh. no.3:110 My-Je '59. (MIRA 12:10)

1. Kafedra gosital'noy khirurgii Kizhinevskogo meditsinskogo
instituta.

(LIVER--HYDATIDS) (GALL BLADDER--DISEASES)

LUTSENKO, S.M.

Plastic surgery with a diaphragm (according to B.V.Petrovskii) in
wounds and resection of myocardial infarct in experiment. Khirurgiia
35 no.8:17-24 Ag '59. (MIRA 13:12)

(HEART--WOUNDS AND INJURIES)

(HEART--INFARCTION)

LUTSENKO, S.M.

Morphological changes in the diaphragm in peritonitis in elderly and senile persons treated with antibiotics. Trudy Kish.gos. med.inst. 12:9-17 '60. (MIRA 16:4)

1. Kafedra gosital'noy khirurgii Kishinevskogo gosudarstvennogo meditsinskogo instituta.

(PERITONITIS)	(DIAPHRAGM)	(ANTIBIOTICS)
	(GERIATRICS)	

LUTSENKO, S.M.

Direction of the blood flow in extracardiac coronary anastomoses.
Eksp.khir.1 anest. 6 no.3:57-58 '61. (MIRA 14:10)
(CORONARY VESSELS—SURGERY) (BLOOD—CIRCULATION)

LUTSENKO, S.M. (Lugansk)

Effect of anticoagulants on absorption from the abdominal cavity during different phases of peritonitis. Pat. fiziol. i eksp. terap. 6 no.1:53-55 Ja-F '62. (MIRA 15:3)

1. Iz kafedry gosspital'noy khirurgii Luganskogo meditsinskogo instituta (nauchnyy rukovoditel' - raboty - prof. P.V. Ryzhov, Kishinev).

(PERITONITIS)
(ANTICOAGULANTS (MEDICINE))
(ABSORPTION (PHYSIOLOGY))

LUTSENKO, S.M., dotsent

Data on the study of peritonitis in elderly and senile patients. Zdrav. Bel. 8 no.4:24-28 Ap '62. (MIRA 15:6)

1. Iz kafedry fakul'tetskoy khirurgii (zaveduyushchiy - dotsent S.M. Lutsenko) Grodnenskogo meditsinskogo instituta (rektor - dotsent L.F. Supron).
(PERITONITIS)

LUTSENKO, S. M.

Experimental myocardial infarct and the collateral blood supply
of the heart following suturing of a diaphragmatic flap. Eksper.
khir. no.3:21-25 '62. (MIRA 15:7)

1. Iz kafedry gosspital'noy khirurgii (zav. - prof. P. V. Ryzhov)
Kishinevskogo meditsinskogo instituta.

(HEART---INFARCTION) (CORONARY VESSELS)
(DIAPHRAGM---SURGERY)

LUTSENKO, S.M., dotsent

Contemporary treatment of peritonitis in ~~middle~~le-aged and elderly subjects. Zdrav.Bel. 8 no.7:12-16 J1 '62. (MIRA 15:11)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent S.M. Lutsenko) Grodnenskogo meditsinskogo instituta (rektor - dotsent L.F.Supron).

(PERITONITIS)

~~LUTSENKO, Stepan Mitrofanovich, doktor med.nauk; KHARITONINA, A.A.,
red.; POLONSKII, S.K., tekhn. red.~~

[Peritonitis at an elderly and senile age; clinical,
experimental and morphological study] Peritonit v po-
zhlom i starcheskom vozraste; kliniko-eksperimental'no-
morfologicheskoe issledovanie. Kishinev, Izd-vo
"Shtiintsa" AN Moldavskoi SSR, 1962. 214 p. (MIRA 16:9)
(PERITONITIS) (GERIATRICS)

LUTSENKO, Stepan Mitrofanovich, doktor med. nauk; KHARITONINA,
A.A., red.; POLONSKIY, S.A., tekhn. red.

[Peritonitis in old age and senility; clinical, experimental
and morphological study] Peritonit v pozhilom i starcheskom
vozraste; kliniko-eksperimental'no-morfologicheskoe issledo-
vanie. Kishinev, Izd-vo "Shtiintsa" AN Mold.SSR, 1962. 214 p.
(MIRA 16:12)

(PERITONITIS)

(GERIATRICS)

LUTSENKO, S.M., prof.

Clinical characteristics of peritonitis in elderly and senile patients. Khirurgiia 39 no.9:66-72 S'63 (MIRA 17:3)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - dotsent S.M. Lutsenko) Grodnenskogo meditsinskogo instituta.

LUTSENKO, S.M., prof. (Grodno, ul. Ozherbko, d.43, kv.55); KALUGIN, A.S.,
kand. med. nauk

Treatment of trophic ulcers of the lower extremities by the application of a preserved heterogenous peritoneum and by vacuum therapy. Ortop., travm. i protez. 26 no.3:26-29 Mr '65. (MIRA 18:7)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. S.M.Iutsenko) Grodnenskogo meditsinskogo instituta (rektor - dotsent D.A.Maslakov).

LUTSENKO, S.V.

Machine-tractor station in the struggle for the development of
stockbreeding. Mekh. sil'. hosp. 8 no.9:7-8 S '57. (MLRA 10:9)

1. Direktor Zmiiv's'koi Mashinno-traktornoy stantsii, Khar'kivs'koy
oblasti.

(Zmiev District--Machine-tractor stations)

(Zmiev District--Stock and stockbreeding)

PAYTSONI, Vil'gel'm, laureat Natsional'noy premii Germanskoy Demokraticheskoy Respubliki; ~~LUTSENKO, Saman Vasil'yevich~~, Geroy Sotsialisticheskogo Truda; LAPIDUS, M.A., red.; PROKOP'YEVA, L.N., tekhn. red.

[Competition between Soviet and German farmers] Sorevnovanie sovetskikh i nemetskikh krest'ian. Moskva, Gos. izd-vo sel'-khoz. lit-ry, 1959. 122 p. (MIRA 14:5)

1. Predsedatel' nemetskogo sel'skokhozyaystvennogo proizvodstvennogo kooperativa imeni Fridrikha Engel'sa (for Paytsoni)
2. Predsedatel' kolkhoza "Proletarskaya volya" Stavropol'skogo kraya (for Lutsenko)
(Collective farms) (Germany, East--Agriculture, Cooperative)

L 36485-65 EPF(c)/EPR/EWP(j)/EWT(m) Pc-L/Pr-L/PS-L RM/WW

ACCESSION NR: AP5010562

UR/0204/64/004/005/0707/0712

AUTHOR: Grigorovich, B. A.; Tyuryayev, I. Ya.; Lutsenko, S. V.; Bodnaryuk, T. S.

TITLE: Synthesis of isoprene from propylene. 4. Decomposition of 2-methylpentene-2 in the presence of HBr

SOURCE: Neftekhimiya, v. 4, no. 5, 1964, 707-712

TOPIC TAGS: catalysis, hydrogen, bromide, propylene, chemical stability, hydrocarbon

Abstract: The influence of temperature, time of contact and hydrogen bromide concentration on the yield of isoprene and composition of the decomposition products of 2-methylpentene-2 in the presence of HBr was studied at atmospheric pressure and under vacuum. The best results at atmospheric pressure were achieved at 675°, time of contact about 0.38 sec, dilution $H_2O:C_6H_{12} = 5:1$, and HBr concentration 0.06 mole/mole of C_6H_{12} . Under these conditions the yield of isoprene was 33-35 mol.%, selectivity 55-56 mol.%. At 50 mm of mercury in the reaction zone, with a dilution $H_2O:C_6H_{12} = 4.4:1$, the best results were obtained at 675°, time of contact 0.145 sec, and HBr concentration 0.06 mole/mole of C_6H_{12} : yield of isoprene 32 mol.%, selectivity 49 mol.%. A mechanism of the decomposition of 2-methylpentene-2, qualitatively explaining the composition of the products obtained, was proposed on the basis of the theory of the radical chain decomposition of olefins, and an explanation was given for

Card 1/2

L 36485-65

ACCESSION NR: AP5010562

UR/0204/64/004/005/0707/0712

2

the role of HBr in this process. The authors thank V. V. Vovodskiy for discussing the reaction mechanism. Orig. art. has 10 formulas, 7 graphs, and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kau-
chuka (Scientific Research Institute of Monomers for Synthetic Rubber)

SUBMITTED: 22May64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 007

OTHER: 001

JPRS

Card 2/2

LUTSENKO, T. A.

PA 66/29T66

USSR/Medicine - Tuberculosis Mar/Apr 69
Equipment, Laboratory

"Method of Thermal Treatment of Laboratory
Equipment to Kill Mycobacterium Tuberculosis,"
T. A. Lutsenko, Sec of Experimental Path,
Moscow Oblast Sci Res Tuberculosis Inst, 1 1/3 pp

"Prob Tuber" No 2

Thermal treatment is a simple reliable method
for general use in laboratories. Its aim is
to kill mycobacterium tuberculosis which re-
mains on equipment after regular sterilization
treatment. The method of thermal treatment
should be a compulsory practice in laboratories
engaged in mass bacterioscopic research of
mycobacterium tuberculosis by the flotation
method.

66/49T66

LUTSENKO, T. A.

"Data on the Complement Fixation Reaction in Tuberculosis." In
Biol Sci, Acad Med Sci USSR, Moscow, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

LUTSENKO, T.A.

LUTSENKO, T.A.

Placental complement as a substitute for guinea pig complement in
serological mass production. Vest. ven. i derm. no.1:47 Ja-F '55.
(MLRA 8:4)

1. Iz serologicheskoy laboratorii Instituta eksperimental'noy
patologii i terapii raka Akademii meditsinskikh nauk SSSR.
(COMPLEMENTS (IMMUNITY)) (SERUM)

LUTSENKO, T.A.; MARKITANTOVA, A.Ye.; TIMOKHINA, M.Ye. [deceased]

Effect of novoembichine on the complement and the production of agglutinins and precipitins in animals [with summary in English].
 Biul.eksp.biol. i med. 44 no.9:89-93 S '57. (MIRA 10:12)

1. Iz laboratorii eksperimental'noy khimioterapii (zav. - chlen-korrespondent AMN SSSR L.F.Larionov) i serologicheskoy laboratorii (zav. - doktor biologicheskikh nauk T.A.Lutsenko) Instituta eksperimental'noy patologii i terapii reka (dir. - chlen-korrespondent AMN SSSR prof. N.N.Blokhin) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR L.A.Zil'berom.

(NITROGEN MUSTARDS, effects,

bis-(2-chlorethyl)-2-chlorpropylamine, on antibody & complement form. (Rus))

(COMPLEMENT,

eff. of bis-(2-chloroethyl)2-chlorpropylamine (Rus))

(ANTIBODIES,

agglutinin & precipitin form., eff. of bis-(2-chloroethyl)-2-chlorpropylamine (Rus))

LUTSENKO T. A. (Doctor of Biological Sciences, Moscow Scientific
Research Institute of Tuberculosis of the Ministry of Public
Health of RSFSR)

"Mixed antigens for complement fixation reaction for
tuberculosis."

Veterinariya, Vol. 38, No. 12, December 1961, P. 57.

LUTSENKO, T.A.

Method for massive bloodletting under anesthesia in small animals.
Lab delo 7 no.1:52-53 Ja '61. (MIRA 14:1)

1. Otdel eksperimental'noy patologii i terapii (zav. V.F.Chernyshev)
Instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR, Moskva.
(BLOOD--COLLECTION AND PRESERVATION)

LUTSENKO, T.A.

Possibility for broader use of a potato medium in studies on tuberculosis. Lab.delo 7 no.7:51-53 J1 '61. (MIRA 14:6)

1. Otdel eksperimental'noy patologii i terapii (zav. - V.F. Chernyshev) Instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR, Moskva.

(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)
(TUBERCULOSIS)

AGAPKIN, I.N., starshiy nauchnyy sotrudnik; LUTSENKO, T.A., doktor
biolog.nauk

Significance of the complement fixation reaction in clinical
cutaneous tuberculosis. Vest.derm.i ven. 35 no.4:44-47 Ap '61.
(MIRA 14:5)

1. Iz otdeleniy kozhnogo tuberkuleza (zav. I.N. Agapkin) i
eksperimental'noy patologii i terapii (zav. V.F. Chernyshev)
Nauchno-issledovatel'skogo instituta tuberkuleza (dir. B.F.
Chernyshev) Ministerstva zdravookhraneniya RSFSR.
(SKIN—TUBERCULOSIS) (COMPLEMENT FIXATION)

LUTSENKO, V.

~~Permanent~~ conference at work. Mias.ind. SSSR 29.no. 4:41 '58.
(MIRA 11:8)

1. Ashkhabadskiy myasokombinat.
(Ashkhabad--Packing houses)

LUTSENKO, V.

Our experience in keeping records. *Mias.ind.SSSR* 30 no.1:34-
35 '59. (MIRA 12:4)

1. Ashkhabadskiy myasokombinat.
(Ashkhabad--Meat industry--Accounting)

LUTSENKO, V.

Accounting for the work of the Kadzharan Ore Dressing Plant for molybdenum sulfides. Prom.Arm. 5 no.3:31-36 Mr '62. (MIRA 15:4)

1. Nauchno-issledovatel'skiy gornometallurgicheskiy institut. (Kadzharan--Ore dressing) (Armenia--Molybdenum sulfides)

1. LUTSENKO, V.A.
2. USSR (600)
4. Forests and Forestry
7. Serious neglect of the collective farm management, Les i step' 5 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

LUTSENKO, V.A., assistant

The relationship of quality of corn silage to milk yield. Zhivotnovodstvo
21 no.2:37 F '59. (MIRA 12:3)

1. Kafedra zhivotnovodstva Voronezhskogo sel'skokhozyaystvennogo
instituta.

(Dairying) (Ensilage)

LOZOVY, Aleksandr Vladimirovich; LUTSENKO, Vladimir Arsent'yevich;
NESTEROVICH, Nikolay Faddeyevich; TRUBIN, Mikhail Ivanovich;
ORLOV, A.I., red.; POLTORATSKAYA, E., red.; ZELENKOVA, Ye.,
tekhn. red.

[Principles of sanitary engineering] Osnovy sanitarnoi tekhniki.
[By] A.V.Lozerovoi i dr. Kiev, Gosstroizdat USSR, 1962. 150 p.
(MIRA 15:7)

(Sanitary engineering)

KAFAROV, V.V., prof.; LUTSENKO, V.A.

Use of analog computers for the analysis of standard chemical
reactions. Zhur. VKHO 10 no.1:2-11 '65.

(MIRA 18:3)

IZVARIN, A.A.; ASHMEROV, K.M.; LUTSENKO, V.A.

Pulse interrupter for gradientless reactors. Kin. i kat. 6 no.2:
364 Mr-Apr '65. (MIRA 18:7)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
Lomonosova.

LUTSENKO, V.G.; PERMINOV, A.I.

New developments in bedmaking. Metallurg 10 no.4:30-32 Ap '65.
(MIRA 18:7)

1. Kuznetskiy metallurgicheskiy kombinat.

LUTSENKO, V. I.

"Kinetics of Formation of Magnesium Silicates in a Solid Phase." Thesis for degree of Cand. Technical Sci. Sub 13 Apr 49, All-Union Sci Res Inst of Mineral Raw Materials.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

LUTSENKO, V.									
PROCESSES AND PROPERTIES INDEX									
Formation of magnesium silicates in the solid phase. K. S. KUKATLADSE AND V. I. LUTSENKO. <i>Ognesoprye</i>, 14 [11] 499-504 (1949).—The problem was investigated by studying the reactions and processes of the following mixtures: (1) $2\text{MgO} + \text{SiO}_2$, (2) $10\text{MgO} + \text{SiO}_2$, and (3) $\text{MgO} + 10\text{SiO}_2$. Isothermal firing was at (900°) to 1500°C. The mineralogical composition of the fired mixtures was determined with a microscope, and quantitative determination of phase composition was made by selective solution in dilute HCl. Results indicate that successive reactions in the formation of Mg silicates in the solid phase are (1) $2\text{MgO} + \text{SiO}_2 = \text{Mg}_2\text{SiO}_4$ and (2) $\text{Mg}_2\text{SiO}_4 + \text{SiO}_2 = 2\text{MgSiO}_3$. The rate of formation of clinoenstatite was much less than that of forsterite at the same firing temperature. Regardless of the proportion of the components in the mixture, the formation of analytically determinable amounts of clinoenstatite started at 1200°, while for forsterite it was $(900)^\circ$. The larger the excess of SiO_2 above the stoichiometric amount for forsterite, the lower was the temperature and the shorter was the time interval for the appearance of the first amounts of clinoenstatite. Forsterite mixture, and the mixtures close to it, were very sensitive to unequal mixing of the components; an excess of SiO_2 in separate sections of the mixture resulted in the formation of clinoenstatite when fired above 1200°. An increase in the "mobility" of the structural particles of solid phases with rising firing temperature is the general condition for the rapid development of reactions and accompanying processes (diffusion, polymorphic changes, and recrystallization).									
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BRIEF SUMMARY									

LUTSENKO, V. I.																																																																													
PROCESSES AND PROPERTIES INDEX																																																																													
Initial extent of contact of substances reacting in the solid phase. K. S. KUTATELADZE AND V. I. LUTSENKO. <i>Ogneupory</i>, 15 [1] 39-43 (1950).—In connection with previous experimental work (<i>Ceram. Abstracts</i>, 1950, April, p. 85e), "Initial extent of contact of reacting substances" is defined as the ratio of the originally contacting moles to the stoichiometric moles in the mixture. By means of this concept, reaction rate in the above work is explained. It is concluded that rate of reaction is directly proportional to magnitude of initial extent of contact of reacting substances. The greater the difference in grain size of the components, the greater will a change in the ratio of the components affect the magnitude of the initial extent of contact (and also rate of reaction in the solid phase), provided all other conditions are equal. Further study is required to determine the possibility of calculating the initial extent of contact and using it for the mathematical interpretation of kinetic laws. B.Z.K.																																																																													
ASA-5LA METALLURGICAL LITERATURE CLASSIFICATION																																																																													
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																										
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VARTANYAN, K.T.; LUTSENKO, V.I.

Preparation of granites and feldspathic-quartz sands for the
manufacture of fine ceramics. Stek.i ker. 13 no.6:19-23 Je '56.
(MLRA 9:8)

1. Kavkazskiy institut m'neral'nogo syr'ya.
(Transcaucasia--Ceramic industries) (Sands)

LUTSENKO, V. I.

Enrichment of feldspar-quartz sands and their industrial
use. K. T. Vartanyan and V. I. Lutsenko (Caucasus
Inst. Mineral Deposits, Tiflis). *Sovetskaya Akad. Nauk*
Gruzin. S.S.R. 17, No. 5, 409-16 (1956).—Georgian
sands of feldspar-quartz type, contg. SiO_2 80, Al_2O_3 7,
and Fe_2O_3 0.2%, after water classification and enrichment,
are usable for making molds for cast iron, or for raw ceramic
materials. G. M. Kozolapoff

Molds

2

LUTSENKO, V. I.

Mining-metallurgical Institute of the Armenian Economic Council

"Measures to improve a type "Mekhanobr-6" flotation machine at the Kadzharen Works"

report presented at the 4th Scientific and Technical Session of the Mekhanobr
Inst, Leningrad, 15-18 July 1958

LUTSENKO, V.I.

Use of distribution curves for making a technical classification
of ores. Dokl. AN Arm. SSR 28 no.5:223-228 '59. (MIRA 12:10)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy institut Soveta
narodnogo khozyaystva Armyanskoy SSR. Predstavleno akademikom AN
Armyanskoy SSR I.G. Magak'yanom.
(Ores--Sampling and estimation)

IUTSENKO, V.I.; AKMAYEVA, S.S.

Balance of distribution of dispersed metals in ore
dressing products. Dokl.AN Arm.SSR 30 no.2:109-114
'60. (MIRA 13:6)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy
institut Sovnarkhoza Armyanskoy SSR. Predstavleno akad.
AN Armyanskoy SSR I.G.Magak'yanom.
(Ores)

LUTSENKO, V.I.

System of regulating devices for normalizing the operations of
the "Mekhanobr 6-A" flotation machine. TSvet. met. 34 no.5:1-11
My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy gorno-metallurgicheskiy institut
sovnarkhoza Armyanskoy SSR.
(Flotation--Equipment and supplies)

LUTSENKO, V.K.; PROMYSLOV, M.Sh. (Moskva)

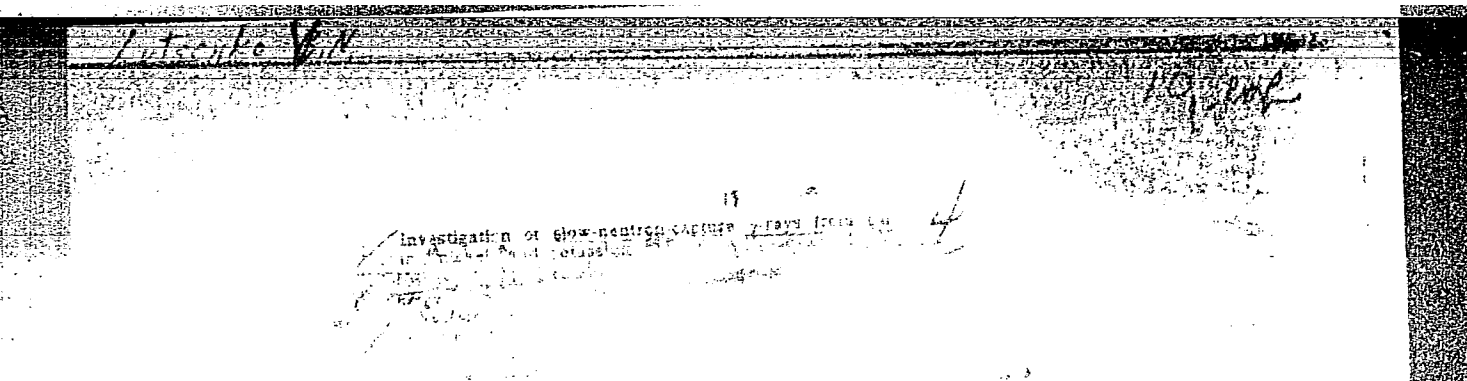
Study of the content of nucleic acids in glial tumors of the
brain in man. Vop.neirokhir. no.4:56-58 '62. (MIRA 15:9)
(NUCLEIC ACIDS) (BRAIN—TUMORS)

LUTSENKO, B.N.

SUBJECT USSR / PHYSICS CARD 1 / 1 PA - 1719
 AUTHOR ADYASEVIC, V.P., GROSEV, L.V., DEMIDOV, A.M., LUTSENKO, B.N.
 TITLE An Investigation of γ -Rays Emitted by the Elements Calcium, Nickel, and Potassium on the Occasion of the Capture of Slow Neutrons.
 PERIODICAL Atomnaja Energija, 1, fasc.2, 28-49 (1956)
 Issued: 1 / 1957

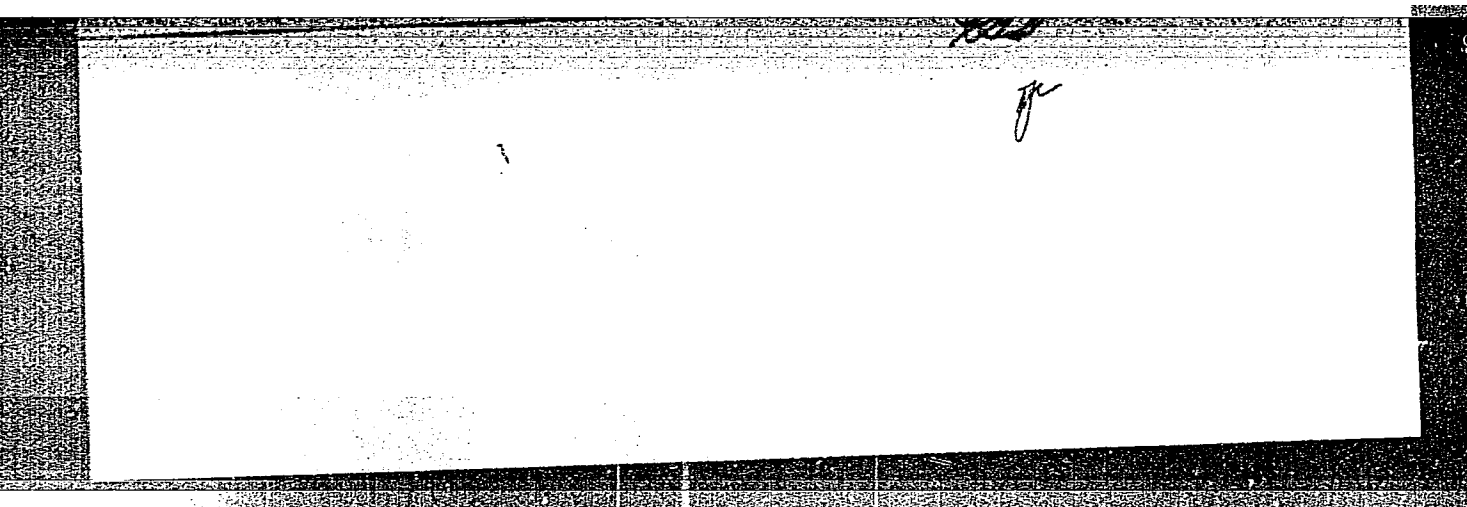
On the occasion of the examination of COMPTON electrons a magnetic spectrometer was used for measuring the energy and intensity of γ -rays emitted by the elements calcium, nickel, and potassium. The energy spectrum of these γ -rays was found to extend from 0,25 to 12 MeV. The intensity of the γ -rays is expressed by the number of γ -quanta emitted by 100 captured neutrons. Possible γ -transition schemes for the elements Ni^{59} , Ni^{61} and K^{40} are given.

INSTITUTION:



"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001030930001-4



APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001030930001-4"

AD'YASEVICH, B.P.; GROSHEV, L.V.; DEMIDOV, A.M.; LUTSENKO, V.N.

Investigation of gamma rays emitted by calcium, nickel and potassium
nuclei following the capture of thermal neutrons. Atom.energ. no.2:
28-39 '56. (MIRA 12:2)

(Gamma rays)

(Nuclear reactions)

710

INVESTIGATION OF GAMMA-RAYS EMITTED BY NUCLEI OF CALCIUM, NICKEL, AND POTASSIUM ON CAPTURING THERMAL NEUTRONS, B. P. Adyasovich, L. V. Groshev, A. M. Demidov, and V. N. Lutsenko. Soviet J. Atomic Energy, No. 2, 171-82(1956).

The energies and intensities of γ rays emitted by nuclei of calcium, nickel and potassium when they capture thermal neutrons were measured by a magnetic spectrometer which analyzes the Compton electrons. The γ -ray spectra were studied in the energy interval 0.25 to 12 Mev. The intensities of γ ray are expressed in terms of the number of γ quanta emitted per 100 neutrons captured. Possible γ -

transition diagrams have been constructed for Ca^{44} , Ni^{58} , Ni^{60} and K^{40} nuclei. The present work is a continuation of the investigation of γ rays emitted by nuclei on capturing thermal neutrons which is being carried out with the BPT reactor of the Academy of Sciences of the USSR. The experimental conditions, the method of measurement and the spectrometer have all been described before. Results are given on the investigation of γ rays from the nuclei of calcium, nickel and potassium. (auth)

LUTSENKO, V. N., DAMIDOV, A. M., GROZHEV, L. V., and PELMEROV, V. I. of USSR

"Spectra of Gamma Rays from Radiative Capture of Thermal Neutrons by Even-Even Radioactive Nuclei with Rotational Levels," a paper submitted at the International Conference on the Neutron Interactions with the Nucleus, New York City, 9-13 Sep 57.

Abstract available in C-3,800,344

LUTSENKO, V.N.

89-9-1/32

AUTHOR: GROSHEV, L.V., DEMIDOV, A.M., LUTSENKO, V.N., PELEKHOV, V.I.
 TITLE: Investigation of the γ -Rays Emitted by the Nuclei of V, Mn, Co, Al on the Occasion of the Capture of Thermal Neutrons.
 (Issledovaniye γ -luchey, ispuskayemykh yadrami V, Mn, Co, Al pri zakhvate teplovykh neytronov)
 PERIODICAL: Atomnaya Energiya, 1957, Vol 3, Nr 9, pp 187 - 203 (U.S.S.R.)

ABSTRACT: The energies of the γ -quanta were measured by means of a scintillation spectrometer. The γ -energies can, for comparison with other nuclear reaction measurements, be arranged in level schemes. The following levels (in MeV) were found with individual nuclei:

$V^{51}(n,\gamma)V^{52}$	$Mn^{55}(n,\gamma)Mn^{56}$	$Co^{59}(n,\gamma)Co^{60}$	$Al^{27}(n,\gamma)Al^{28}$
29 γ -lines	41 γ -lines	40 γ -lines	25 γ -lines
Niveaus in V^{52}	Niveaus in Mn^{56}	Niveaus in Co^{60}	Niveaus in Al^{28}
0,13	0,11	0,060	0,03
0,42	0,21	0,286	0,97
0,87	0,308	0,445	1,37
0,83	0,47	0,513	1,63
1,40	1,15	0,557	2,14
1,48	1,32	0,622	2,28

Card 1/2

89-9-1/32

Investigation of the γ -Rays Emitted by the Nuclei of V, Mn,
Co, Al on the Occasion of the Capture of Thermal Neutrons.

1,55	1,53	0,972	3,10
1,75	1,73	1,012	3,29
1,79	2,05	1,237	3,46
1,84	2,23	1,533	3,60
2,09	2,47	1,825	3,88
2,13	2,54	2,154	4,03
2,15	2,68	2,295	4,24
2,31	3,83	2,610	4,69
2,42	7,26	3,138	4,77
2,46		7,51	4,90
2,53			5,14
2,85			5,47
3,00			5,77
3,05			6,25
3,14			6,76
3,31			7,728
7,296			

Card 2/2

With 7 tables, 16 illustrations and 4 Slavic
References

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

GROSHEV, L.V.; DEMIDOV, A.M.; LUTSENKO, V.N.; PELEKHOV, V.I.

[Atlas of gamma spectra of radiative capture of thermal neutrons]
Atlas spektrov γ -buchi radiatsionnogo zakhvata teplovykh
neitronov. Izd-vo Glavnogo upravleniia po ispol'zovaniu atomnoi
energii, 1958. 198 p. (MIRA 13:3)
(Gamma rays--Spectra) (Neutrons--Capture)

LUTSENKO, V. N.

AUTHORS: Groshev, L.V., Demidov, A.M., Lutsenko, V.N., Pelekhov, V.I. 89-1-1/29
 TITLE: γ Ray Spectra Emitted by Even-Even Nuclei With Rotational Levels if the Nuclei Captured Thermal Neutrons (Spektry γ -luchey radiatsionnogo zakhvata neytronov dlya ochetno-chetnykh izluchayushchikh yader s vrashchatel'nyimi urovnyami)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 5-21 (USSR)

ABSTRACT: By means of a magnetic Compton spectrometer the γ -spectra ($E = 0.3-9$ MeV) are measured and the following lines are obtained:

E γ in MeV

Gd ¹⁵⁷ (n, γ)	Gd ¹⁵⁵ (n, γ)	Gd(n, γ)	Er(n, γ)	Hf(n, γ)	Dy(n, γ)	Ta(n, γ)
6.74 $\pm$ 0.01	7.33 $\pm$ 0.03	(0.69 $\pm$ 0.02)	6.680 $\pm$ 0.015	6.39 $\pm$ 0.04	5.87 $\pm$ 0.02	6.04 $\pm$ 0.02
6.44 $\pm$ 0.03	6.74 $\pm$ 0.03	(0.64 $\pm$ 0.02)	6.202 $\pm$ 0.015	6.14 $\pm$ 0.02	5.80 $\pm$ 0.015	5.94 $\pm$ 0.03
5.88 $\pm$ 0.03	6.44 $\pm$ 0.035	0.55 $\pm$ 0.02	6.07 $\pm$ 0.03	5.73 $\pm$ 0.012	5.15 $\pm$ 0.02	5.80 $\pm$ 0.03
5.62 $\pm$ 0.03	~4.5		5.88 $\pm$ 0.03	5.49 $\pm$ 0.03	4.65 $\pm$ 0.04	5.54 $\pm$ 0.03
Card 1/3 ~5.2	1.24 $\pm$ 0.02		5.73 $\pm$ 0.04	5.34 $\pm$ 0.03	4.10 $\pm$ 0.025	5.36 $\pm$ 0.03

γ -Ray Spectra Emitted by Even-Even Nuclei With Rotational
Levels if the Nuclei Captured Thermal Neutrons

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4.92±0.04	1.17±0.02	5.34±0.03	4.92±0.03	3.48±0.03	5.24±0.03
1.33±0.02	1.06±0.02	4.77±0.035	4.80±0.45	3.14±0.03	4.99±0.03
1.26±0.02 (0.96±0.02)		4.66±0.03	4.54±0.04	3.04±0.03	4.83±0.03
1.185±0.015		4.42±0.045	4.38±0.015	2.86±0.03	
1.110±0.015		4.1	1.415±0.015	2.74±0.025	
0.96±0.02		1.9	1.39±0.015	0.42±0.02	
0.800±0.015		1.3	1.30±0.02		
0.78±0.02		1.01±0.02	1.220±0.015		
		0.94±0.02	1.180±0.015		
		0.82±0.01	1.090±0.015		
		0.736±0.015			
		0.64±0.02			

Some γ -quanta of the nuclei can be well classified in level schemata.
The following levels are excited with certainty:

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γ Ray Spectra Emitted by Even-Even Nuclei With Rotational Levels if the Nuclei Captured Thermal Neutrons

89-1-1/29

Gd ¹⁵⁸	Gd ¹⁵⁶	Er ¹⁶⁸
E γ in MeV	E γ in MeV	E γ in MeV
0	0	0
0.08	0.089	0.080
0.26	0.287	0.265
1.11	1.17	1.08
1.20	1.24	1.28
1.25	8.46	1.80
1.40		7.76
7.87		

There are 15 figures, 11 tables, and 26 references, 5 of which are Slavic.

SUBMITTED: August 31, 1957

AVAILABLE: Library of Congress

Card 3/3

S/048/60/024/007/002/011
B019/B060

26.2264
AUTHORS: Groshev, L. V., Demidov, A. M., Lutsenko, V. N.,
Malov, A. F.

TITLE: A Magnetic Gamma Spectrometer¹⁹ With High Resolving Power

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 7, pp. 791-801

TEXT: This is the reproduction of a lecture delivered at the 10th All-
Union Conference on Nuclear Spectroscopy held in Moscow from January 19
to 27, 1960. The authors describe a new magnetic Compton spectrometer which
allows the gamma spectrum to be measured in the energy range of 0.3-12 Mev
with a resolution of 0.3% at $h\nu > 2$ Mev. Resolution becomes poorer at
lower energies. Fig. 1 shows a scheme of the experimental arrangement, in
which the spectrometer described here was used and which served for in-
vestigating the spectrum of gamma emission caused by the capture of thermal
neutrons. The sample investigated was placed in a core-tangential channel
of an WPT(IRT) reactor near the core and was collimated with iron and lead
diaphragms. The neutrons were filtered by means of a 10 cm thick paraffin
Card 1/2 ✓c

A Magnetic Gamma Spectrometer With High Resolving Power S/048/60/024/007/002/011
B019/B060

layer. The novelty in the spectrometer described here consists in that the energy of the Compton electrons is analyzed with two different magnetic fields. The first axisymmetric magnetic field is produced in a device called separator and collects the Compton electrons coming from the converter by means of a horizontal and a vertical slit on a counter C_1 . The electrons then reach a magnetic analyzer, the β -spectrometer proper and are there again collected on a counter C_2 . In the experiment, the dependence of the number of pulse coincidences in the counters C_1 and C_2 on the magnitude of the analyzer field is measured, the separator field changing with the analyzer field. The authors then give formulas (1) and (2) which describe the magnetic field. In the following sections, they describe the capture angles of electrons, the resolving power, the spectral sensitivity of the spectrometer and its construction in great detail. The authors finally thank D. V. Pavlov for his calculation of the magnet system, I. M. Kamyshev for having designed the instrument and for having provided the drawings, A. S. Volkov for having worked out the electronic equipment, and the reactor team for their assistance in the measurements. There are 8 figures and 12 references: 6 Soviet, 5 US, and 1 Swedish. ✓

Card 2/2

31503

S/048/60/024/007/002/011
B104/B201

21.6000

AUTHORS: Groshev, L. V., Demidov, A. M., Lutsenko, V. N., and
Malov, A. F.

TITLE: A magnetic gamma spectrometer with high resolving power

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 24,
no. 7, 1960, 791 - 901

TEXT: The present paper has been read at the 10th All-Union Conference on Nuclear Spectroscopy, Moscow, January 19 - 27, 1960. A new magnetic Compton spectrometer is described, which allows the gamma spectrum to be measured in the energy range of 0.3 - 12 Mev with a resolution of 0.3% at $h\nu > 2$ Mev. Resolution becomes poorer at lower energies. Fig. 1 shows a scheme of the experimental arrangement, in which the spectrometer described here was used and which served for examining the spectrum of gamma emission accompanying the capture of thermal neutrons by nuclei. The sample concerned was placed in a core-tangential channel of an IRT (IRT) reactor near the core. The gamma rays were collimated through lead and iron filters, and the neutrons were absorbed by a 10-cm thick paraffin

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S/048/60/024/CC7/CO2/C11

B104/B201

A magnetic gamma spectrometer...

layer. The novelty in the spectrometer described here consists in that the energy of Compton electrons is analyzed with two different magnetic fields (Fig. 2). In the so-called separator the Compton electrons ejected from the converter (K) are collected by an axisymmetric field, pass through a horizontal and a vertical slit, then a counter D_1 , reach a magnetic analyzer serving as β -spectrometer, are again collected, pass through a third slit, and hit the counter C_2 . In the experiment, the dependence of pulse coincidences in the counters C_1 and C_2 on the analyzer field is measured, the separator field changing with the analyzer field. The authors then give formulas

$$H(r) = H_0 \left[1 - 0,80 \frac{r - r_0}{r_0} + 0,65 \left(\frac{r - r_0}{r_0} \right)^2 \right]. \quad (1)$$

$$H(R) = H_0 \left[1 - \frac{1}{2} \left(\frac{R - R_0}{R_0} \right) + \frac{1}{8} \left(\frac{R - R_0}{R_0} \right)^2 + \frac{1}{16} \left(\frac{R - R_0}{R_0} \right)^3 \right] \quad (2)$$

which describe the radial variation of the magnetic fields in the separator and analyzer, respectively. In the sections coming next, they de-

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A magnetic gamma spectrometer...

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B104/B201

scribe the capture angles of electrons, the resolving power, the spectral sensitivity of the spectrometer, and its construction in great detail. D. V. Pavlov is thanked for his calculation of the magnetic system, I. M. Kamyshev for having designed the device and for having provided the drawings, A. S. Volkov is thanked for having worked out the electronic equipment, and the reactor team for their assistance in the measurements. There are 8 figures, 1 table, and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc.

Card 3/0 3

S/048/60/024/007/016/032/XX
B019/B056

24.6600
AUTHORS:

Groshev, L. V., Demidov, A. M., and Lutsenko, V. N.

TITLE:

The Spectrum of the γ -Rays From the $Cl^{35}(n,\gamma)Cl^{36}$ Reaction 19

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 7, pp. 833-838

TEXT: This paper was read on the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. The authors investigated the spectrum of the γ -rays, which are formed during the capture of thermal neutrons by Cl^{35} . The measurements were carried out by the new magnetic Compton spectrometer (Ref. 2), which is described in this issue, on NaCl samples (50.100.190 mm). The γ -spectra obtained are shown in Fig. 1 ($h\nu = 4.8 - 8.7$ Mev) and Fig. 2 ($h\nu = 0.2 - 4.8$ Mev). A detailed discussion is given on the nature of the background in the reactor channel and in the converter. The Table gives the energies and the intensities of the γ -lines. In the first column of this Table, the numbers are given, by means of which the corresponding lines in the spectrum represented in Figs. 1 and 2 are denoted, in the

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